

Video Cassette Recorder **8**

EV-C3

Operating Instructions

Before operating the unit, please read this manual thoroughly and retain it for future reference.



Video 8

To prevent fire or shock hazard, do not expose the unit to rain or moisture.



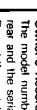
CAUTION

CAUTION TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER OR GATE BACK.
NO USER SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



This symbol is intended to alert the user to the presence of uninsulated 'dangerous voltage' within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.



Owner's Record

The model number is located at the front and rear and the serial number on the front panel. Record the serial number in the space provided below. Refer to these numbers whenever you call upon your Sony dealer regarding this product.

Model No. FEVCO Serial No. _____

Caution

Television programs, films, video tapes and other materials may be copyrighted. Unauthorized recording of such material may be contrary to the provisions of the copyright laws. Also, use of this recorder with cable television transmission may require authorization from the cable television transmitter and/or program owner.

This unit uses four video format cassettes. It can play back in the SP mode (approximately 1.43 cm/second) and the LP mode (approximately 0.72 cm/second).

For the customers in the U.S.A.

This equipment generates and uses radio frequency energy and if not installed and used properly, that energy may cause interference to other equipment. Instructions may cause interference to other equipment reception. It has been tested and found to comply with the limits for a Class B computing device, in accordance with the specifications in Subpart J of Part 15 of FCC Rules, thereby affording a reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient the receiving antenna.
- Relocate the equipment with respect to the receiver.
- Move the equipment away from the receiver.
- Plug the equipment into a different outlet so that equipment and receiver are on different branch circuits.
- If necessary, the user should consult the dealer or an experienced television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful:

How to Identify and Resolve Radio Frequency Interference Problems. This booklet is available from the U.S. Government Printing Office, Washington, DC 20422, Stock No. 004-000-0454.

For the customers in Canada

This apparatus complies with the Class B limits for radio noise emissions set out in Radio interference regulations.

On repacking

If you have any questions about this unit, contact your Sony service facility.

On safety

- This unit operates only on 120 V AC, 60 Hz. Do not plug the unit into any solid object or liquid fall into the cabinet.
- Should any solid object or liquid fall into the cabinet, turn off the power immediately and before operating it have it checked by qualified personnel.
- One blade of the plug is wider than the other for the purpose of safety and it will fit into the power outlet only one way. If you are unable to insert the plug fully into the outlet, contact your dealer.
- Unplug the unit from the wall outlet if it is not going to be used for an extended period of time. To disconnect the cord, pull it out by the plug. Never pull the cord itself.

On installation

- Allow adequate air circulation to prevent internal heat build-up. Do not place the unit on surfaces (rugs, blankets, etc.) or near materials (curtains, draperies) that may block the ventilation slots.
- Do not install the unit near heat sources such as radiators or air ducts, or in a place subject to direct sunlight, excessive dust, mechanical vibration or shock.
- The unit is designed for operation in horizontal position. Do not install it in an inclined position.
- Keep the unit and cables taken away from equipment with strong magnets, as for example microwave ovens or large loudspeakers.
- Do not place any heavy object on the unit.
- Do not install the unit near an AM receiver, since noise may be heard when listening to AM programs.
- When the unit is not in use, turn the power off to conserve energy and to extend its life.
- Remove and store video cassettes after recording or playback.
- Store the cassettes in their cases and keep them in an upright position to prevent intrusion of dust and uneven writing.

On operation

- This reminder is provided to call the CATV system installer's attention to Article 800.22 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the grounding system of the building, as close to the point of cable entry as practical,
- This apparatus complies with the Class B limits for radio noise emissions set out in Radio interference regulations.
- Clean the cabinet, panel and controls with a dry, soft cloth or a soft cloth lightly moistened with a mild detergent solution. Do not use any type of solvent, such as alcohol or benzine, which might damage the finish.
- Do not throw away the carton and packing materials. They make and ideal container in which to transport the unit.

This unit uses four video format cassettes. It can play back in the SP mode (approximately 1.43 cm/second) and the LP mode (approximately 0.72 cm/second).

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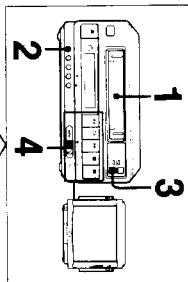
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Overview of the EV-C3

The EV-C3 8 mm recorder enables easy editing of the tape recorded by your 8 mm camera recorder and other VCRs. Employing a CONTROL-L connector and a CONTROL-S IN jack, it is possible to perform synchronized editing, simultaneous editing of two VCRs at a time during tape editing. Also, it is possible to remotely control the EV-C3 by video editing controller such as the RMT-450. You will be able to record in both SP (standard play mode) and the LP (long play mode). However note that PCM recording/playback available on some R-CAM recorders is not possible with this unit. The PCM sound recorded or other recorded with another recorder cannot be played back with this unit. Its compactness and the ease of operation expands the enjoyment of creating your own video program.

How the Manual Works

- Controls and setting on the EV-C3 are shown in capital letters:
- Press the POWER button.
- The number in an illustration corresponds to the number in the text:



3 Press the EDH button and light the indicator.

• Notes are enclosed in a box like this.

Notes on the handling of batteries
In normal operation, the batteries will last for approximately 6 months.
If the Commander will not be used for a long period of time, remove the batteries to avoid possible damage from battery leakage.

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Before You Begin...

Please go through this section before starting the operation of this unit.

Supplied Accessories

Please check that the following accessories are supplied with your unit.

• Remote Commander RMT-450



• Six AA (R6) Battery



- External antenna connector (300-ohm to 75-ohm matching transformer)



- 75-ohm coaxial cable with F-type connectors



(1)



(2)

(1)

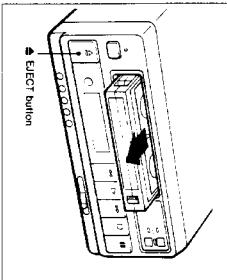
Tape speed	Recording/playback time
Cassette used	SP mode LP mode
PS-15MP	15 minutes 30 minutes
PS-30MP	30 minutes 1 hour
PS-60MP	1 hour 2 hours
PS-90MP	1 hour 30 minutes 3 hours
PS-120MP	2 hours 4 hours

Handling Video Cassettes

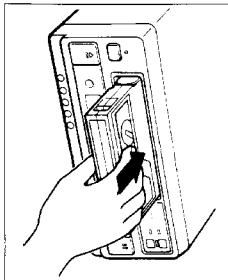
Cassette insertion

Insert a cassette fully into the unit with the window facing upwards. If the AC power cord is connected to the wall outlet, the power will be automatically turned on.

The cassette indicator and SP/LP mode indicator lights in the display window.



► EJECT button



Cassette ejection

Press the ► EJECT button to unload the cassette. If the AC power cord is connected to the wall outlet, the cassette can be ejected even when the power of the unit is turned off.



Recording not available when the red portion appears.
Recording Available

Notes on Handling the Cassette

- Do not insert anything other than a cassette into the cassette compartment.
- Avoid using and storing the cassette in the location subject to dust, direct sunlight or near heat sources susceptible to vibration, and subject to strong magnetic field.
- Store cassette in their cases and keep them in an upright position to prevent intrusion of dust and uneven winding.
- When the cassette will not be used for a long period of time, periodically rewind and advance the tape at a high speed, once or twice a year.
- Do not insert anything in the small holes on the rear of the cassette.

Recording/playback time

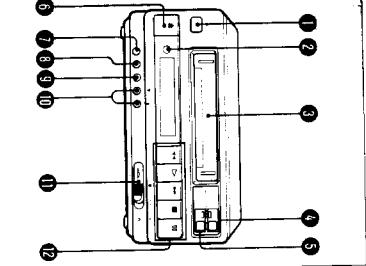
For recording, select the desired recording time by the SP/LP mode selection switch. For playback, the player automatically selects the recording format, SP or LP, of the cassette and then plays it back in the appropriate mode.

Refer to the chart on the left for the recording/playback time available in each mode.

Recording/playback time	Notes on Handling the Cassette
15 minutes	Do not insert anything other than a cassette into the cassette compartment.
30 minutes	Avoid using and storing the cassette in the location subject to dust, direct sunlight or near heat sources susceptible to vibration, and subject to strong magnetic field.
1 hour	Store cassette in their cases and keep them in an upright position to prevent intrusion of dust and uneven winding.
2 hours	When the cassette will not be used for a long period of time, periodically rewind and advance the tape at a high speed, once or twice a year.
3 hours	Do not insert anything in the small holes on the rear of the cassette.
4 hours	

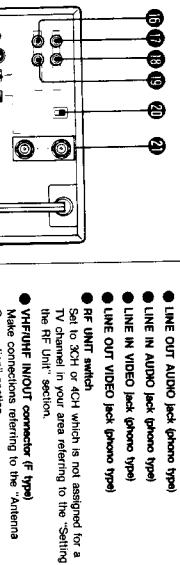
Getting to Know the EV-C3

Front



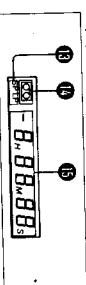
- **POWER ON/OFF switch and indicator**
Press to turn on the power of the unit. The indicator lights when the power is supplied.
- **Remote sensor**
From the supplied Infrared Remote Commander RM-1450 here.
- **Cassette compartment**
Insert 8 mm format video cassette tape.
- **SYNCHRO EDIT button and indicator**
Press to activate the SYNCHRO EDIT mode when controlling another VCR via the CONTROL L connector during editing.
- **EDIT button and indicator**
Press to light the indicator and activate the EDIT mode when editing tapes. High quality picture mode can be obtained during editing by activating this mode. Normally keep the indicator turned off.
- **EFFECT button**
Press to unload the cassette.

Rear



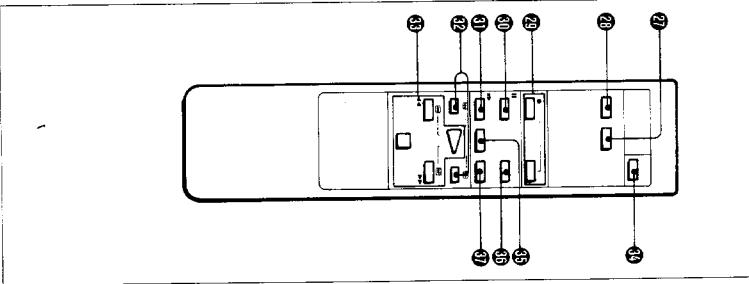
- **CONTROL S IN jack (mini type)**
Connect to the CONTROL S OUT jack of other Sony video products for remote control operation.
- **VHF/UHF INPUT connector (F type)**
Connect to the CONTROL L connector of other Sony video products for remote control operation.
- **CONTROL L connector (5 pin DIN)**
Connect to the CONTROL L connector of other Sony video products for remote control operation.
- **LINE OUT AUDIO jack (phone type)**
- **LINE IN VIDEO jack (phone type)**
- **LINE OUT VIDEO jack (phone type)**
- **RF UNIT switch**
Set to 3CH or 4CH which is not assigned for a TV channel in your area referring to the "Setting the RF Unit" section.
- **SLAVEMASTER switch**
Set to SLAVE when remotely controlling the unit by other Sony products via the CONTROL L connector. Set to MASTER when remotely controlling other Sony products via the CONTROL L connector by this unit.
- **TWTR switch**
When connecting the unit and the TV via the VHF antenna terminal, normally set this switch to VTR. When you wish to view TV programs when the unit is in use, set this switch to TV.

Display window



- **SP/LP select when recording mode**
Press to switch the recording mode.
- **COUNTER RESET button**
Press to reset the tape counter to "00000."
- **TAPE RETURN button**
Press to advance or rewind the tape to the counter "00000" point.
- **REC when and indicator**
Slide to the right to start recording.
- **Cassette indicator**
- **Slow motion/Playback mode indicator**
Press the ▲ or ▼ button to adjust the picture when streaks appear or when picture seems vertical during slow motion playback or still mode.
- **Type counter**
- **PAUSE/STILL**

Getting to Know the EVC3



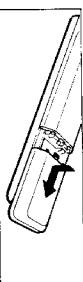
Remote Commander

- **TAPE RETURN button**
Functions the same as the TAPE RETURN on the unit.
- **COUNTER RESET button**
Functions the same as the COUNTER RESET on the unit.
- **REC**
Press the two buttons simultaneously to start recording.
- **II PAUSE**
Functions the same as the PAUSE/STILL button on the unit.
- **■■ FRAME**
Press during playback pause mode to view a frame-by-frame picture.
- **SEARCH**
Press to obtain a locked picture search in which high-speed picture in forward or reverse can be viewed even when releasing the button.
- **Tape transport buttons (PLAY, REW, FF, STOP)**
Functions the same as the buttons on the unit.
- **POWER ON/OFF switch**
Press to turn the unit on and off.

- **x 110**
Press during playback, playback pause, or x 2 playback mode to view playback at 110 times the normal speed (slow motion playback).
- **x 2**
Press during playback or playback pause mode to view playback at two times the normal playback speed.
- **x 115**
Press during playback, playback pause, or x 2 playback mode to view playback at 115 times the normal speed (slow motion playback).

How to insert batteries

- 1 Open the lid.



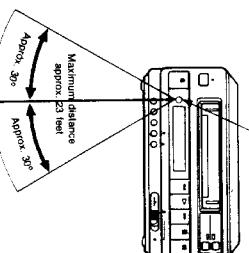
- 2 Insert two size AA (IEC designation R6) batteries with correct polarity.



- 3 Close the lid.

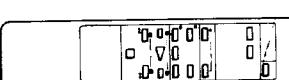
Point the Commander to the remote sensor.

The operating range of the Remote Commander



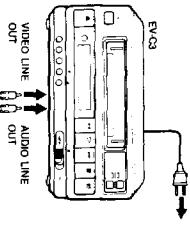
Notes on the handling of batteries

- In normal operation, the batteries will last for approximately 6 months.
- If the Commander will not be used for a long period of time, remove the batteries to avoid possible damage from battery leakage.



Playing Back a Tape

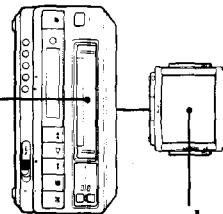
Connection (1) — To a TV with Video and Audio inputs



Operation

- 1 Turn on the TV and set its input selector to "VTR".
- 2 Insert the cassette fully into the cassette compartment. The power will automatically be turned on and the cassette indicator lights in the display window.

- 3 Press the ▶ PLAY button. The ▶ lamp lights and the playback picture will appear on the TV screen.



To stop playback, press the ■ STOP button.
To rewind the tape, press the ▲◀ REV button.
To advance the tape in high speed, press the ▶▶ FF button.
To remove the cassette, press the ▲ EJECT button.

Auto rewind function

When the tape reaches its end after normal playback, it will automatically be rewound to the beginning and stops. However, the tape will not be rewound in the picture search or fast forward mode.

Auto play function

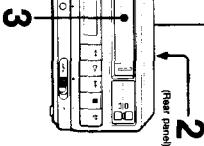
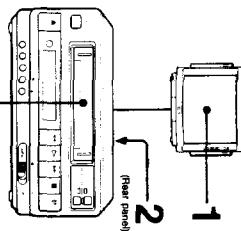
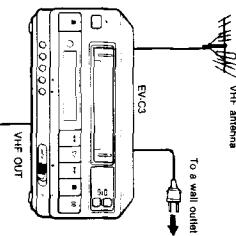
The unit can be set to go into playback automatically when the tape is completely rewound to the beginning of the tape. Press the ▶ PLAY button while holding down the ▲◀ REV button. This function is operable only on the unit.

Note
When playing back a blank tape
A gray screen will appear on the TV screen.
The tape counter will not function.

Playing Back a Tape

Connection (2) — To a TV without Video and Audio Inputs

Operation



- 1** Turn on the TV.
- 2** Set the RF UNIT switch to either channel 3 or 4, whichever is not active in your area. Refer to the "Setting the RF Unit" section.
- 3** Insert the cassette fully into the cassette compartment. The power will automatically be turned on and the cassette indicator lights in the display window.
- 4** Press the ▶ PLAY button. The lamp lights, and the playback picture will appear on the TV screen.

Note

How to use the TW/TR switch
When connecting the unit to a TV without video and audio inputs, set the VTR/TW switch as follows:

VTR — Normally set to this position. When the power to the unit is turned on, picture from the EV-C3's VIDEO LINE IN jack can be viewed on the TV screen. When the unit is turned off, TV programs can be viewed on the screen.

TV — Set to this position when you wish to view TV programs while playing back the EV-C3 or recording video sources from the VIDEO LINE IN jack on the EV-C3.

Note
Various antenna connections can be considered depending upon the type of antennas and TV you have. See the "Antenna Connection" section first and make the correct connections.

Various Playback Modes

To obtain a still picture

- To search for a desired scene
- Picture search

To view the picture during fast-forward or rewind mode — Locked

To view a playback picture at 2 times the normal speed in the forward direction.

To view a playback picture during fast-forward or rewind mode — Locked

To view a slow motion playback

To advance the picture frame-by-frame

Notes

When streaks appear vertically during slow motion playback or still mode

Adjust the picture by the SLOW/STILL ADJ ▲▼ buttons on the front panel.

When streaks appear vertically during slow motion playback or still mode

Adjust the picture by the SLOW/STILL ADJ ▲▼ buttons on the front panel. During still mode, enter the slow motion mode and make adjustments. Readjust the picture if streaks should appear when a tape recorded in a different mode is played back.

Use of the Tape Counter

To recall the scene selected during playback or recording

During playback, press the ■ PAUSE button. The ■ lamp lights and a still picture can be seen. To resume normal playback, press the ▶ PLAY button or the ■ PAUSE button again. When the pause mode lasts or more than approximately 7 minutes, the unit will enter the playback mode.

During playback or still mode, press the ▲ REV button or the ▼ FF button.

While the button is pressed, a high speed picture without sound will appear on the TV screen. When the button is released, the unit will return to the previous mode.

During playback or still mode, press the SEARCH ▲ or the SEARCH ▼ on the Remote Commander.

A high speed picture in forward or reverse will appear on the screen even when the button is released. To resume normal playback, press ▶ PLAY.

During playback or still mode, press the x 2 button on the Remote Commander.

The sound can be heard in this mode. To resume normal playback, press ▶ PLAY.

During playback or still mode, press the ■ 1/10 or the 1/15 button on the Remote Commander.

The sound is muted in these modes. To resume normal playback, press ▶ PLAY.

White in still mode, tap the ■ FRAME button.

The picture advances frame-by-frame and the sound is muted. To resume normal playback, press ▶ PLAY.

To view the picture momentarily while the unit is in the fast forward or rewind mode without picture on the screen.

Notes

Picture and sound during picture search modes

A few streaks will appear on the screen, but these are not a failure of the unit. Sound will be muted in the search modes.

When playing back tapes recorded in SP mode

A wider streak will appear on the screen during picture search mode compared to tapes recorded in LP mode. When viewing the picture in still or picture search mode, the picture may show vertically or the color in the white and black portion may be reversed, depending upon the TV you are using.

1

During playback or recording, press the COUNTER RESET button at your desired scene. The tape counter will display "0:00:00".

2

Press the STOP button after playback or recording is completed.

3

At this point, the tape counter must display more than 1 minute. Otherwise, this function will not operate. The unit will start searching for the counter 0 point.

4

Press the ▶ PLAY button during the search mode.

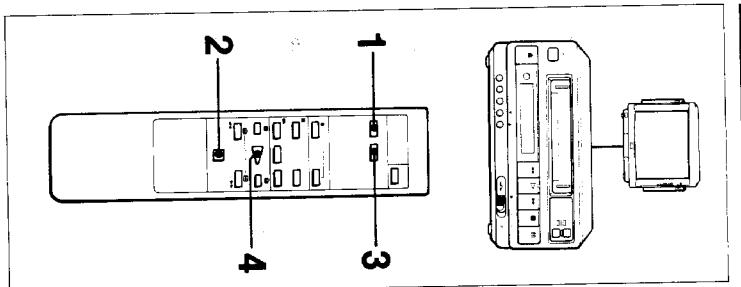
Playback starts from the scene selected in STEP 1.

If the ▶ PLAY button is not pressed, the unit will stop at the counter 0 point.

Note

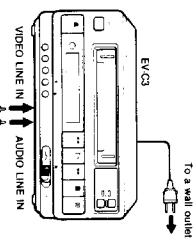
Accuracy of the tape counter

As the linear time counter equipped on the unit is not a clock counter, a certain amount of difference may occur between the time counter display and the actual recording/playback time. This difference may be noticeable in case when you have switched the recording mode.

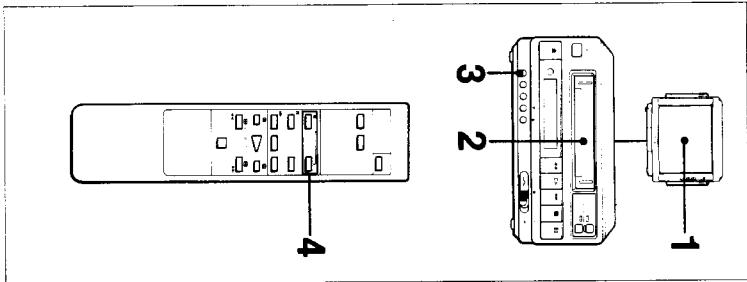


Recording TV Programs

Connection



Operation



- 1** Turn on the TV and select the program to be recorded.

2 Insert a cassette fully into the compartment. The Power will automatically be turned on and the cassette indicator lights in the display window.

- 3** Select the recording mode by the **SP/P** button.

- 4** Press the two buttons simultaneously to start recording. The lamp on the REC button on the unit lights and recording starts.

To stop recording, press the **■ STOP** button. To stop the tape for a moment, press the **■ PAUSE** button. To resume recording, press the **■ PAUSE** button.

When recording pause mode lasts for more than approximately 7 minutes, the unit enters the stop mode.

Auto rewind function

When the tape reaches its end during recording, it will automatically be rewound to the beginning and stops.

Notes

- * As the EV-C3 has no built-in tuner to connect a TV with tape, as shown above, to record TV programs, Connect the TV antenna directly to the VCR's VIDEO IN VIDEO and AUDIO of the EV-C3. If your TV doesn't have video outputs, video/audio outputs, TV programs cannot be recorded unless you use a video or TV tuner. Refer to the instruction of the tuner for connections.
- * When the TV has both L/R outputs, connect to its left channel only.

You can create your own video program by editing with another VCR. Take a look at the list below to find the type of editing you can perform with your video system.

To Make a Copy of the Tape

Playing back with another VCR and recording with the EV-C3
Playing back with the EV-C3 and recording with another VCR Page 22

To Gather Desired Scenes from the Original Tape — Assemble Editing

If your VCR is equipped with a control terminal
Playing back with another VCR and recording with the EV-C3 Page 21
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If your VCR is not equipped with a control terminal
Playing back with another VCR and recording with the EV-C3 Page 27
Playing back with the EV-C3 and recording with another VCR Page 28

To Re-record New Scenes onto the Original Tape — Insert Editing

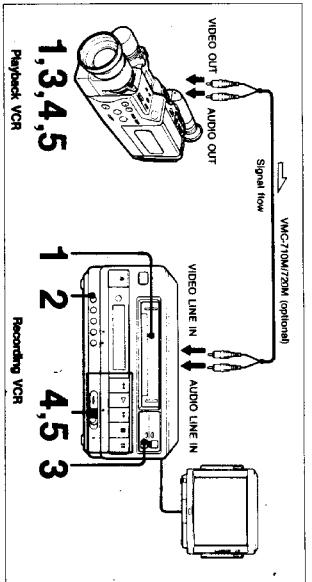
Playing back with another VCR and recording with the EV-C3 Page 29

Editing with a Video Remote Controller

Controlling the EV-C3 with the Sony RM-E100U video editing controller Page 32

To Make a Copy of the Tape

■ Example 1: Playing back with another VCR and recording with the EV-C3



1 Turn on the power of the unit and insert a source tape.

Insert a cassette for recording.

Playback VCR

Recording VCR

2

Select the recording mode by the SP/LP button.

3 Activate the EDIT mode if the unit has this function.

Press the EDIT button and light the indicator.

4 Search for the playback start point and enter the playback pause mode.

Search for the recording start point and enter the recording pause mode.

5 Press the PAUSE button both of the units simultaneously.

Press the PAUSE button on the playback VCR a little before the recording VCR.

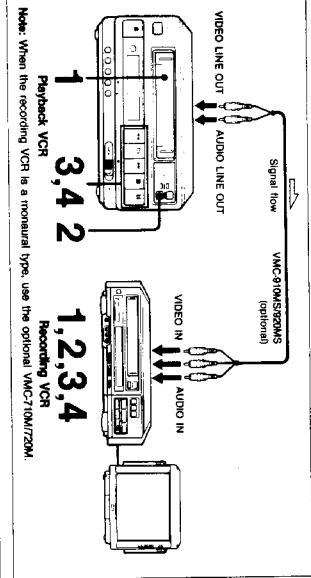
When copying is completed

Press the STOP button on both of the units.

Editing

To Make a Copy of the Tape

- Example 2 — Playing back with the EV-C3 and recording with another VCR



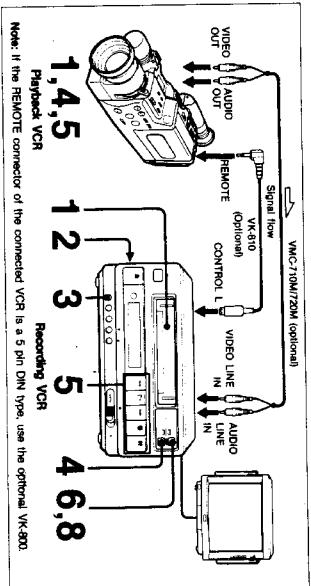
1
Playback VCR

1,2,3,4
Recording VCR

Note: When recording VCR is a monaural type, use the optional VMC-TOM/TDM.

To Gather Desired Scenes from the Original Tape — Assemble Editing

- Example 1 — Using the CONTROL L connector
Playing back with another VCR and recording with the EV-C3



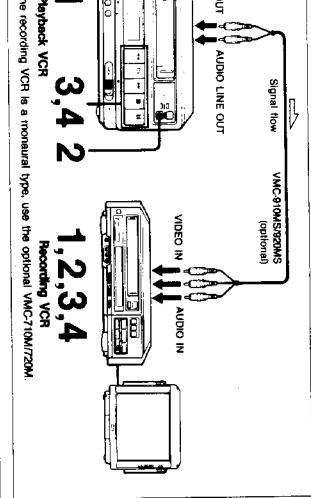
1,4,5
Playback VCR

1,2,3,5,4,6,8
Recording VCR

Note: If the REMOTE connector of the connected VCR is a 5 pin DIN type, use the optional VK-500.

To Make a Copy of the Tape

- Example 2 — Playing back with the EV-C3 and recording with another VCR



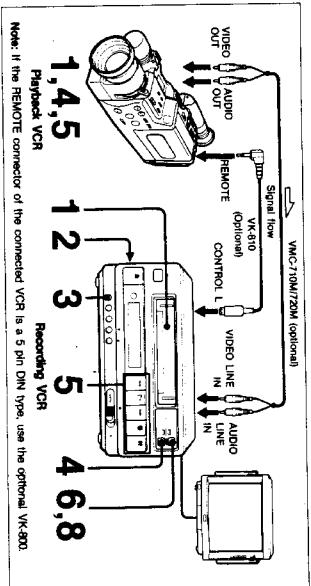
1
Playback VCR

1,2,3,4
Recording VCR

Note: When recording VCR is a monaural type, use the optional VMC-TOM/TDM.

To Gather Desired Scenes from the Original Tape — Assemble Editing

- Example 1 — Using the CONTROL L connector
Playing back with another VCR and recording with the EV-C3



1,4,5
Playback VCR

1,2,3,5,4,6,8
Recording VCR

Note: If the REMOTE connector of the connected VCR is a 5 pin DIN type, use the optional VK-500.

Editing**6****Playback VCR****Recording VCR**

Press the SYNCHRO EDIT button.
The indicator of the SYNCHRO EDIT and EDIT button lights.

Playback start.

Press the SYNCHRO EDIT button at the end point of the edit.
The unit enters the recording pause mode.

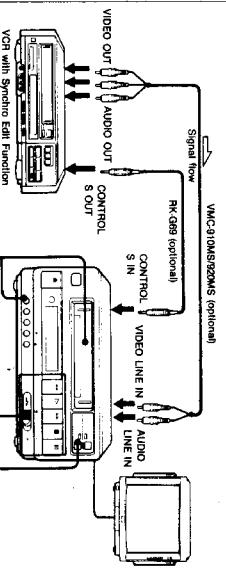
7

To edit the next scene
Repeat steps 5 to 7.

To stop during assemble editing
Press the SYNCHRO EDIT or ■ STOP button.
When editing is completed
Press the STOP button on both of the units.

To Gather Desired Scenes from a Prerecorded Tape - Assemble Editing

Example 2 — Using the Control S IN jack
Playing back with another VCR and recording with the EV-C3

**6****Playback VCR****Recording VCR**

Press the SYNCHRO EDIT button.
The indicator of the SYNCHRO EDIT and EDIT button lights.

Playback start.

Press the SYNCHRO EDIT button at the end point of the edit.
The unit enters the recording pause mode.

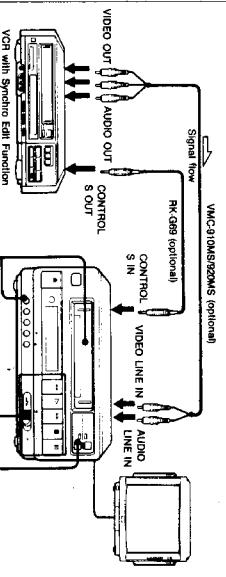
7

To edit the next scene
Repeat steps 5 to 5.

To stop during assemble editing
Press the SYNCHRO EDIT or ■ STOP button.
When editing is completed
Press the STOP button on both of the units.

To Gather Desired Scenes from a Prerecorded Tape - Assemble Editing

Example 2 — Using the Control S IN jack
Playing back with another VCR and recording with the EV-C3

**Editing****6****Playback VCR****Recording VCR**

Press the SYNCHRO EDIT button.
The indicator of the SYNCHRO EDIT and EDIT button lights.

Playback start.

Press the SYNCHRO EDIT button at the end point of the edit.
The unit enters the recording pause mode.

7

To edit the next scene
Repeat steps 3 to 5.

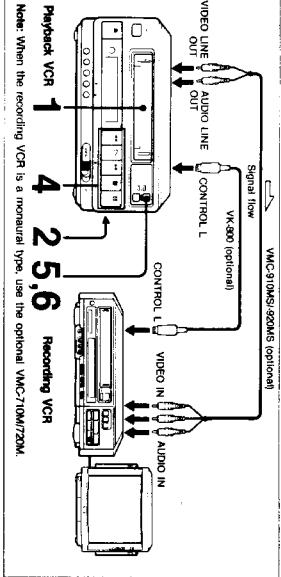
To stop during assemble editing
Press the SYNCHRO EDIT or ■ STOP button.
When editing is completed
Press the STOP button on both of the units.

Editing

To Gather Desired Scenes from a Pre-recorded Tape — Assemble Editing

Example 3 — Using the Control L connector

Playing back with the EV-C3 and recording with another VCR

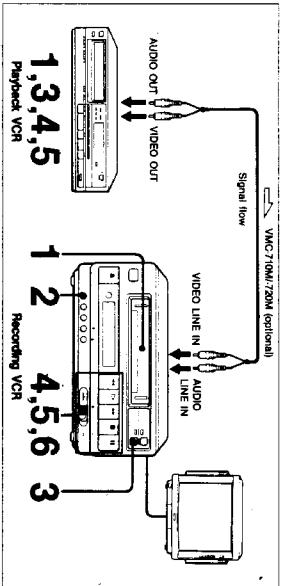


Note: When the recording VCR is a monaural type, use the optional VMG-710M/720M.

To Gather Desired Scenes from the Original Tape — Assemble Editing

Example 4 — Using a VCR not equipped with a control terminal

Playing back with another VCR and recording with the EV-C3



- 1 **Playback VCR**
 - 2 **Recording VCR**
 - 3 **Recording VCR**
 - 4 **Recording VCR**
 - 5 **Recording VCR**
 - 6 **Recording VCR**
- | | |
|---|---|
| Playback VCR | Recording VCR |
| Insert a source tape. | Turn on the power of the unit and insert a source tape. |
| Set the SLAVE/MASTER switch to SLAVE. | Set the SLAVE/MASTER switch to SLAVE. |
| Activate the EDIT mode if the unit has this function. | Activate the EDIT mode if the unit has this function. |
| Search for the playback start point and enter the recording pause mode. | Search for the edit start point and enter the recording pause mode. |
| Press the SYNCRO EDIT button. | Press the PAUSE button on the playback VCR a little before the recording VCR. |
| Press the SYNCRO EDIT button at the end of the scene. | Press the PAUSE/STILL button at the end point of the edit. |
| The unit enters the playback pause mode. | When editing is completed |
| To edit the next scene | Press the STOP button on both of the units. |
| Repeat steps 4 to 6. | Press the STOP button during assemble editing. |
| To stop during assemble editing | Press the STOP button on both of the units. |
| To edit the next scene | Press the STOP button on both of the units. |

Editing**To Gather Desired Scenes from the Original Tape — Assemble Editing**

- Example 5 — Using VCR not equipped with a control terminal**
Playing back with the EV-C2 and recording with another VCR



1 3,4 2 1,2,3,4,5
Recording VCR

Playback VCR

Recording VCR

1 Insert a cassette.

2 Press the EDIT button and light the indicator.

3 Search for the playback start point and enter the playback pause mode.

4 Release the playback and recording pause mode of both VCRs. Press the PAUSE/STILL button on the playback VCR a little before the recording VCR.

5 Press the PAUSE button at the end point of the edit.

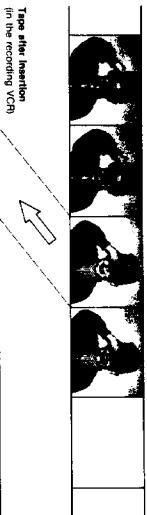
To edit the next scene
Repeat steps 3 to 5.

When editing is completed
Press the STOP button on both of the units.

To Re-record New Scenes onto the Original Tape — Insert Editing

- Insert editing is a technique to re-record [insert] a different scene onto the original tape.**

Insert source tape (in the playback VCR)



Original scene

New scene

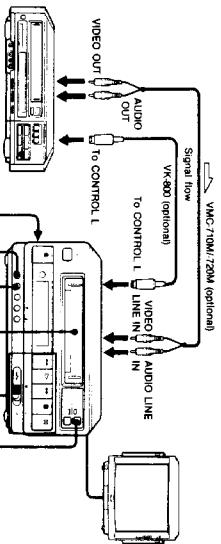
Starting point

Ending point

Refer to the following pages for operation.

Example — Playing back with another VCR and recording with the EV-C3

Press the COUNTER RESET button to display "000000." in the display window.



6

Rewind the tape and enter the recording pause mode at the start point of the edit.

7

Press the SYNCRO EDIT button. The indicator of the SYNCRO EDIT and EDIT button lights.

8



The unit automatically enters the playback pause mode when the editing is completed. To stop editing before the point set in step 6, press the SYNCRO EDIT button.

1,4,5

2 3 6 1 5,7 8

Playback VCR

Recording VCR

Play/Stop VCR

Recording VCR

Turn on the power of the unit and insert a source tape.

Insert the original tape.

Set the SLAVE/MASTER switch to MASTER.

To edit the next scene
Repeat steps 1 to 9.

When editing is completed
Press the STOP button on both of the units.

2

3

Select the recording mode by the SLP button.
Select the mode in which the previous recording was made.

4

Activate the EDIT mode if the unit has this function.

Search for the playback pause mode.

Search for the edit end point.

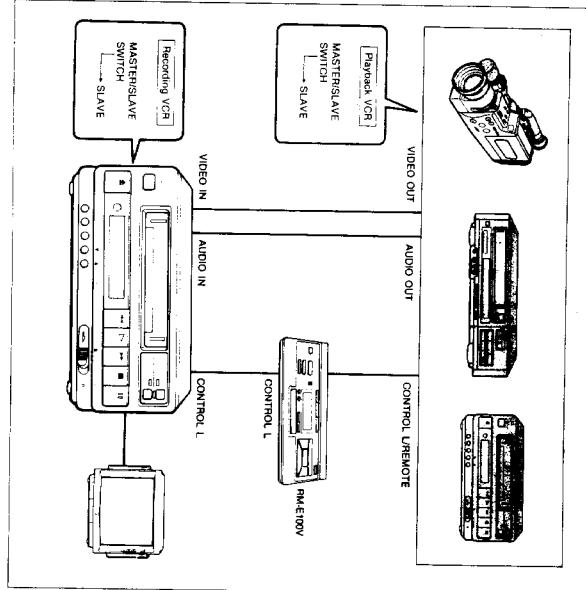
5

Editing

Editing with the Video Editing Controller

Example — Controlling the EV-C3 with the Sony RM-E100V Video Editing Controller

By connecting EV-C3 and another VCR to the Sony video editing controller such as the RM-E100V, both of the VCRs can be remotely controlled for easier editing procedures. For your reference, a connecting example is given below. Please refer to the manual of the RM-E100V for detailed operation.



Antenna Connection

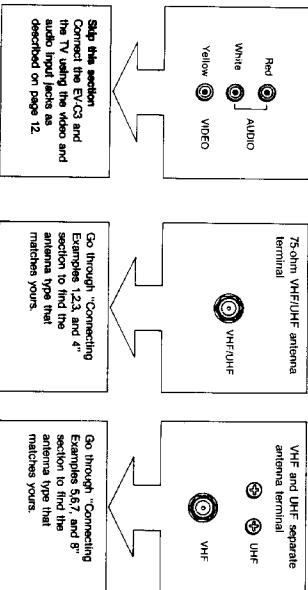
First Check Your TV

If your TV has **VIDEO and audio input jacks**

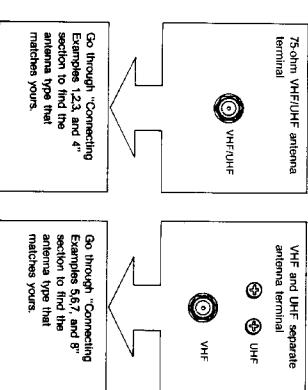
If your TV does not have **video and audio input jacks**
Check the antenna terminals on your TV.

In order to view the playback picture on the TV screen, the EV-C3 and the TV receiver must be connected properly. The connection between the two units varies depending upon the type of TV receiver and the antenna that you have.

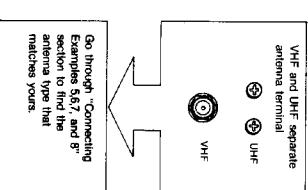
If your TV receiver does not have video and audio inputs, connection between the EV-C3 and the TV becomes very important. Before operating the unit, go through this section to make the correct connections.



Stop this section
Connect the EV-C3 and the TV using the video and audio input jacks as described on page 12.



Go through "Connecting Examples 1,2,3 and 4"
section to find the antenna type that matches yours.



Do through "Connecting Examples 5,6,7 and 8"
section to find the antenna type that matches yours.

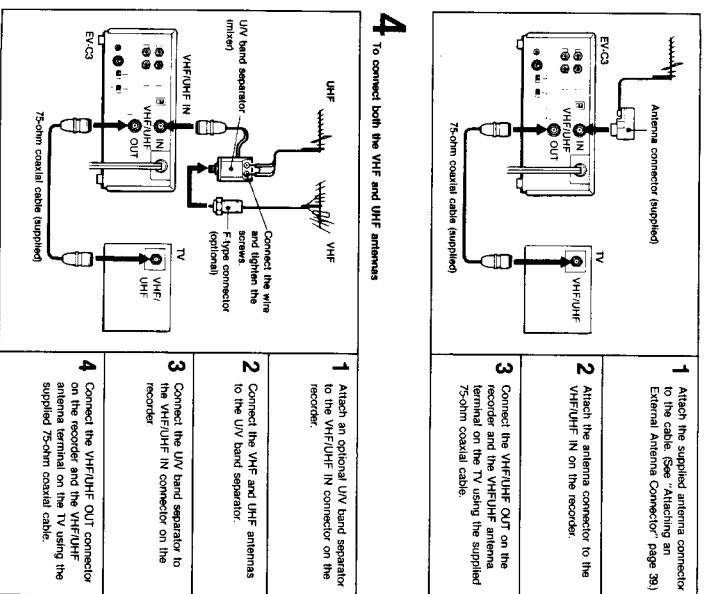
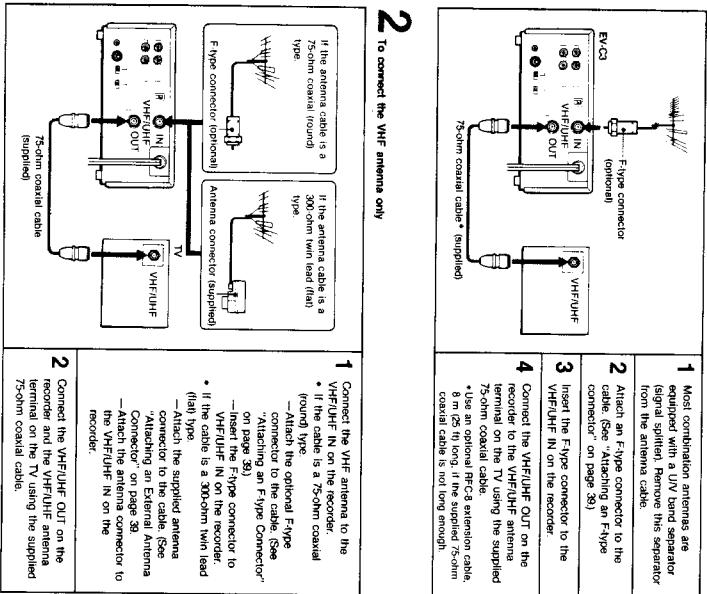
Caution

- Turn off the power to the recorder and the TV and disconnect the AC power cord of the recorder and the TV from the wall outlet.
- Do not connect the AC power cords until all of the connections are completed.

If your TV does not match the three examples given above
Consult your nearest Sony dealer or a qualified technician.

Before you begin.
Connections between the recorder VHF/UHF OUT connector and the antenna terminals of a TV receiver should be made only as shown in the instructions. Failure to do so may result in operation that violates the regulation of the Federal Communications Commission regarding the use and operation of rf devices. Never connect the output of the recorder to an antenna or make simultaneous (parallel) antenna and recorder connections at the antenna terminals of your receiver.

Connecting Examples

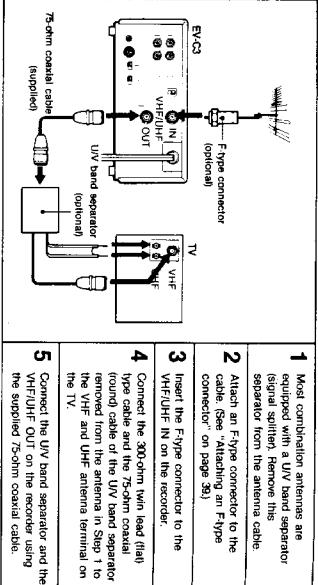


Antenna Connection

Connecting Examples

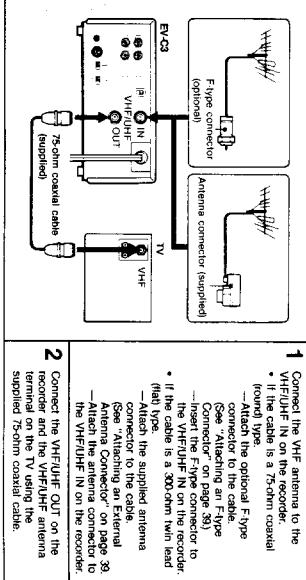
5

To connect a combination VHF/UHF antenna



6

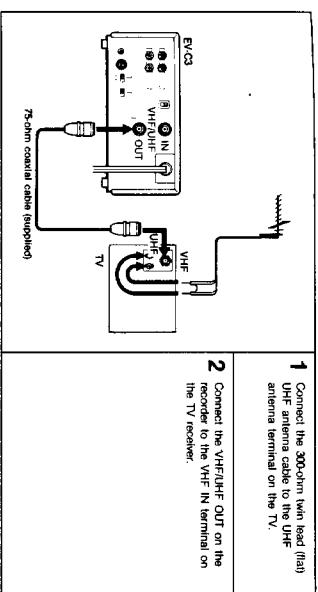
To connect the VHF antenna only



7

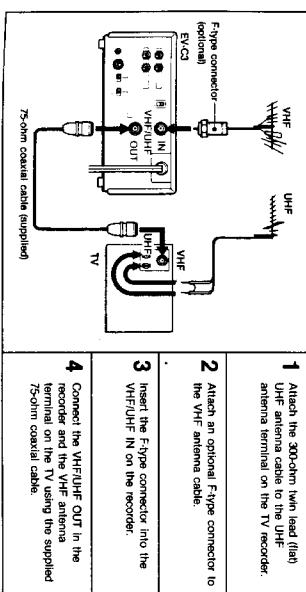
To connect the UHF antenna only

- 1 Connect the 300-ohm twin lead (flat) UHF antenna cable to the UHF round type.
- 2 Attach the optional F-type connector to the cable.
- 3 Insert the F-type connector to the VHF/UHF IN on the recorder.
- 4 Connect the 300-ohm twin lead (flat) UHF antenna cable to the UHF round type.
- 5 Connect the UHF band separator and the supplied 75-ohm coaxial cable.



8

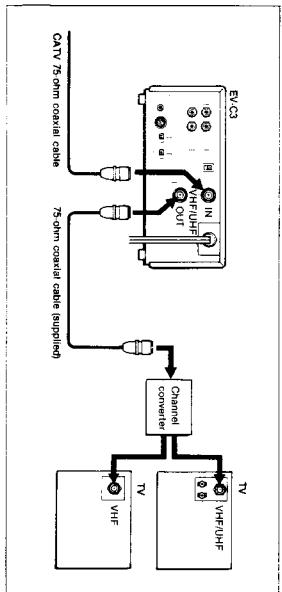
To connect both the VHF and UHF antennas



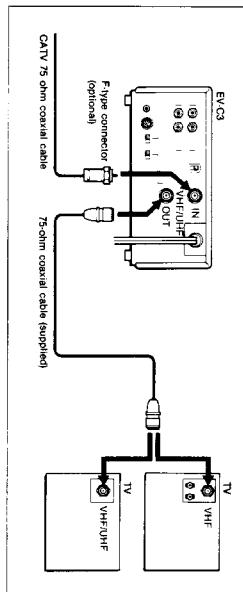
Antenna Connection

Connecting Examples

When the TV is a cable TV compatible type
An connecting example is given below, but we recommend you to consult your cable company to make sure that the cable is properly connected.



When the TV is not a cable TV compatible type
Connect the cable TV channel converter between the recorder. By setting the TV/VTR switch to TV, you can watch a cable TV program while playing back or recording video sources using the VIDEO LINE IN jack on the EV-C3.

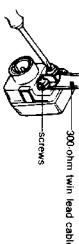


Attaching an external antenna connector

- 1 Loosen the screws on the antenna connector.

2 Fit the 300-ohm twin lead cable on the UHF antenna under the screws on antenna connector.

3 Tighten the screws again.



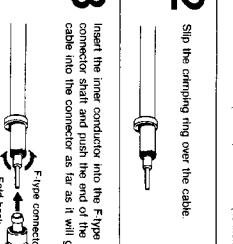
Attaching an F-type connector

- 1 Strip 1/4 inch from the end of the cable so 3/8 inch of the center conductor is exposed.

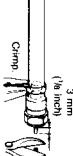
2 Slip the crimping ring over the cable.



3 Insert the inner conductor into the F-type connector shaft and push the end of the cable into the connector as far as it will go.

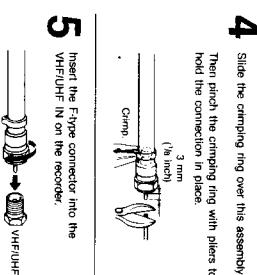


4 Slide the crimping ring over this assembly. Then pinch the crimping ring with pliers to hold the connection in place.



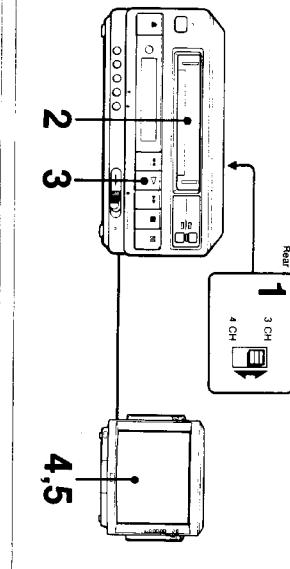
Then pinch the crimping ring with pliers to hold the connection in place.
3 mm
(1/8 inch)

Insert the F-type connector into the VHF/UHF IN on the recorder.



Setting the RF Unit

To get the proper RF signal, set the RF UNIT selector switch on the rear panel of the EV-C3. If channel 4 is active in your area, set the switch to channel 3, and vice versa.



- 1** See the RF UNIT located at the rear to 3 CH or 4 CH, whichever is not active in your area.
- 2** Insert a recorded cassette.
- 3** Press ▶ PLAY.
- 4** Turn on the TV.
- 5** Set the TV receiver to either VHF channel 3 or 4 to agree with the RF UNIT setting you made in step 1. The picture recorded on the tape will appear on the TV screen. If no picture appears on the screen, or if the display is not clear, turn the channel on the TV.

System	
Video recording system	FM color two-head helical scanning
Audio recording system	NITSC color, EIA standards
Recording head	FM color, EIA standards
Usable cassettes	8 mm format video cassettes
Take speed	SP mode: Approx. 14.3 mm/sec. LP mode: Approx. 7.2 mm/sec.
Recording/playback time	SUPER mode: 2 hours with the Sony PE-120MP video cassette LP mode: 4 hours with the Sony PE-120MP video cassette
Fast forward/reverse time	Approx. 4 min with the Sony PE-90MP video cassette
General	
Power requirements	AC 120 V ±10%, 60 Hz
Operating temperature	5°C to 40°C (41°F to 104°F)
Storage temperature	-20°C to +60°C (-4°F to +140°F)
Dimension	Approx. 178 × 98 × 255 mm (7 1/8 × 3 1/2 × 10 1/8 inches)
Weight	Including the projecting parts and controls (without batteries) Approx. 2.4 kg (5 lb. 5 oz.)
Remote Commander RM-F450	
Remote control system	Infrared control
Command mode	IRB2
Power requirements	3 V DC, using two size AA (R6) batteries
Dimensions	Approx. 40 × 18 × 175 mm (1 1/2 × 3/4 × 7 inches)
Weight	including protecting parts and controls (without batteries) Approx. 105 g (3.7 oz.)
Accessories Supplied	
VHF/UHF output	Phono connector, 75 ohms, unbalanced
Control S IN	Phono connector, 75 ohms, unbalanced, VHF channel 3 or 4 selectable
Control L (MasterVolume)	7-pole coaxial cable with F-type connector, 2 m (1 Design and specifications are subject to change without notice.

* For details about the TV channel adjustment, see the instruction of the TV receiver.

Troubleshooting

Symptom	Possible Causes
POWER cannot be turned on.	Power cord is not connected. The TV/VIDEO switch is set to TV.
Cannot monitor playback picture on the screen.	The RF unit is not set to the proper channel. The video heads are dirty.
Poor picture quality.	Clean the heads using the Sony VHS-25CL video head cleaning cassette. For details on cleaning, refer to the instructions furnished with the cleaning cassette. If the VHS-25CL cleaning cassette is not available in your area, have the heads cleaned at the nearest Sony service facility.
Playback cannot be performed even when the ► button is pressed.	The tape is at its end.
No recording can be performed.	The tab on the cassette is slid out with the red portion showing.
Search using the TAPE RETURN button cannot be performed.	The TAPE RETURN button was pressed before the tape counter display was more than one minute.
Cannot control by the Remote Commander.	The batteries are exhausted.